

# Benedict Leung

My research area is human-computer interaction, focusing on novel interactions with hardware like pen-based devices, eye-tracking, and brain computer interfaces. Recently, my research has been creating interactions with Large Language Models.



## Degrees

### Computer Science (MSc)

Ontario Tech University

09 / 2023 – 08 / 2025

- Implicit Pen Annotation Assisted by Large Language Models

### Computer Science (BSc Hons)

Ontario Tech University

09 / 2017 – 05 / 2022

- Minor in Mathematics
- Dean's List (Fall 2017)
- President's List (Fall 2020 - Winter 2022)

## Experience

### Teaching Assistant

Ontario Tech University

09 / 2022 – 05 / 2025

- Programming Workshop I and II (Fall 2022 & Winter 2023)
- Human Computer Interaction (Fall 2023, 2024)
- Software Systems Dev. & Integ. (Winter 2024, 2025)

### Undergraduate Student Research Fellow

Ontario Tech University - Vialab

09 / 2022 – 08 / 2023

- Engage in research activities under supervision through the Undergraduate Student Research Fellowship (USRF) program.

### Undergraduate Student Researcher

Ontario Tech University - Vialab

05 / 2022 – 08 / 2022

- Work on research projects with a supervisor, funded by NSERC USRA

### Undergraduate Thesis

Ontario Tech University - Vialab

09 / 2021 - 04 / 2022

- Creating a touch-less camera that uses mental commands and hand gestures to interact with.
- Explores the combination of a brain-computer interface and eye-tracking glasses

### Research Assistant

Ontario Tech University

07 / 2021 - 12 / 2021

- Deploy a web-based breadboard circuit-building simulator, designed for learning about digital design.

## Honours and Awards

### In-Course Scholarship

Ontario Tech University

09 / 2021 – 09 / 2022

- Achieved a GPA of 4.0-4.3 during the previous academic year.

### NSERC USRA

Ontario Tech University - Vialab

05 / 2022

- Engage in 16 weeks of full-time research activity under supervision.
- Funded by NSERC

## Publications

Neel Shah, **Benedict Leung**, Mariana Shimabukuro, Ali Neshati, SwipeSense: Exploring the Feasibility of Back-of-Device Swipe Interaction Using Built-In IMU Sensors. *MobileHCI* 2025.

**Benedict Leung**, Mariana Shimabukuro, Christopher Collins, GazeQ-GPT: Gaze-Driven Question Generation for Personalized Learning from Short Educational Videos. *Graphics Interface* 2025.

**Benedict Leung**, Mariana Shimabukuro, Christopher Collins, NeuroSight: Combining Eye-Tracking and Brain-Computer Interfaces for Context-Aware Hand-Free Camera Interaction. *UIST Adjunct* 2024.